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|-------------------------------|------------------------|---------------------|
| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |
|                               | 10/602,222             | BARKER ET AL.       |
|                               | <b>Examiner</b>        | Art Unit            |
|                               | Christopher A. Daley   | 2111                |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 6/24/2003.
2.  The allowed claim(s) is/are 1-9, 15 - 22.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date 112705.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.



REHANA PERVEEN  
SUPERVISORY PATENT EXAMINER  
11/28/05

## **DETAILED ACTION**

1. Claims 1 – 22 are pending.

### ***Election/Restrictions***

2. During a telephone conversation with Joseph Lally on November 22, 2005 a provisional election was made to prosecute the invention of Barker et al (US2004/0268000), claims 1 – 9,15-22. Affirmation of this election must be made by applicant in replying to this Office action. Claims 10 - 14 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention. The following groupings were offered, Group1 comprise claims 1 - 9, and 15 - 22. Group 2 comprise 10 - 14. Attorney Lally agreed to the restriction, and chose group 1 for prosecution. Group1 addresses the application of the pass through device, while group 2 addresses the detailed characteristics of the pass through device.

3. Claims 10 – 14 are cancelled based on telephone conversation with attorney of record, Joseph Lally on Wednesday, November 23, 2005.

### ***Allowable Subject Matter***

4. Claims 1 – 9, 15 – 22 are allowed.
5. The following is an examiner's statement of reasons for allowance:

Independent Claim 1 is allowable over the prior art of record because the Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of the said prior arts. The following limitations were not found:

A system board having a set of sockets, each socket suitable for receiving one of the set of processors wherein the number of sockets in the set of sockets exceeds the number of processors in the set of processors; a pass through device occupying one of the set of sockets, wherein the pass through device connects a first interconnect link connected to the socket and a second interconnect link connected to the socket such that the first and second interconnect links form the functional equivalent of a single interconnect link.

Dependent claims 2 – 9 are rendered allowable, as associated independent claim 1 is allowable.

Independent Claim 15 is allowable over the prior art of record because the Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of the said prior arts. The following limitations were not found:

a system board including a set of sockets suitable for receiving a corresponding set of processors and further including a first instance of an inter-chip link connecting a first socket of the set of sockets to a second socket and a second instance of an inter-chip link connecting the second socket to a third socket; a second processor inserted in the third processor socket; and a pass through device inserted in the second socket, wherein the pass through device connects the first instance of the inter-chip link to the second instance of the inter-chip wherein the first processor is directly connected to the second processor via the first and second instances of the inter-chip link.

Dependent claims 16 - 22 are rendered allowable, as associated independent claim 15 is allowable.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Daley whose telephone number is 571 272 3625. The examiner can normally be reached on 9 am. - 4p m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571 272 3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CAD  
11/23/05



REHANA PERVEEN  
SUPERVISORY PATENT EXAMINER  
11/28/05